



## SEQUENCE LISTING

<110> Ward, Peter A.  
Huber-Lang, Markus  
Sarma, Vidya  
Czermak, Boris

<120> Compositions and Methods for the Treatment of Sepsis

<130> UM-04594

<140> 09/651,685

<141> 2000-08-30

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<151> 1999-08-31

<160> 82

<170> PatentIn Ver. 2.0

<210> 1

<211> 77

<212> PRT

<213> Rattus norvegicus

<400> 1

Asp Leu Gln Leu Leu His Gln Lys Val Glu Glu Gln Ala Ala Lys Tyr  
1 5 10 15

Lys His Arg Val Pro Lys Lys Cys Cys Tyr Asp Gly Ala Arg Glu Asn  
20 25 30

Lys Tyr Glu Thr Cys Glu Gln Arg Val Ala Arg Val Thr Ile Gly Pro  
35 40 45

His Cys Ile Arg Ala Phe Asn Glu Cys Cys Thr Ile Ala Asp Lys Ile  
50 55 60

Arg Lys Glu Ser His His Lys Gly Met Leu Leu Gly Arg  
65 70 75

<210> 2

<211> 20

<212> PRT

<213> Rattus norvegicus

<400> 2

Lys His Arg Val Pro Lys Lys Cys Cys Tyr Asp Gly Ala Arg Glu Asn  
1 5 10 15

Lys Tyr Glu Thr  
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<210> 3

<211> 74

<212> PRT

<213> Homo sapiens

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<400> 3  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15  
Val Val Lys Lys Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu  
20 25 30  
Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu Gly Pro Arg Cys Ile  
35 40 45  
Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg Ala Asn  
50 55 60  
Ile Ser His Lys Asp Met Gln Leu Gly Arg  
65 70

<210> 4  
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<400> 4  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15  
Val Val Lys Lys  
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<210> 5  
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<212> PRT  
<213> Homo sapiens

<400> 5  
Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15  
Arg Ala Ala Arg  
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<210> 6  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 6  
Cys Val Val Ala Ser Gln Leu Arg Ala Asn Ile Ser His Lys Asp Met  
1 5 10 15  
Gln Leu Gly Arg  
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<210> 7  
<211> 74  
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<213> Bos taurus

<400> 7  
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 Trp Val Lys Lys Cys Cys Tyr Asp Gly Ala His Arg Asn Asp Asp Glu  
                           20                          25                          30  
 Thr Cys Glu Glu Arg Ala Ala Arg Ile Ala Ile Gly Pro Glu Cys Ile  
                           35                          40                          45  
 Lys Ala Phe Lys Ser Cys Cys Ala Ile Ala Ser Gln Phe Arg Ala Asp  
           50                          55                          60  
 Glu His His Lys Asn Met Gln Leu Gly Arg  
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<210> 8  
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                           20                          25                          30  
 Thr Cys Glu Glu Arg Ala Ala Arg Ile Lys Ile Gly Pro Lys Cys Val  
                           35                          40                          45  
 Lys Ala Phe Lys Asp Cys Cys Tyr Ile Ala Asn Gln Val Arg Ala Glu  
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 Gln Ser His Lys Asn Ile Gln Leu Gly Arg  
           65                          70

<210> 9  
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 ctgctagaat ttctttggga cctagatgta ttaaagcatt tacagaatgt tgtgttggtg 180  
 cttctcaatt gaggcgaata tttctcataa agatatgcaa ttgggaagat aggatccgtc 240  
 ga 242

<210> 10  
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 <212> DNA  
 <213> Homo sapiens

<400> 10  
 atgttgcaaa aaaaaattga agaaattgct gctaaatata aacattctgt tggttaaaaaa 60

<210> 11  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 11  
tggtgttatg atggagcttc tgttaataat gatgaaacct gcgaacaacg cgctgctaga 60

<210> 12  
<211> 231  
<212> DNA  
<213> Rattus norvegicus

<400> 12  
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gttgcccggg tgaccatagg cccacactgc atcagggcct tcaacgagtg ttgtactatt 180  
gcgataaga tccgaaaaga aagccaccac aaaggcatgc tgttggaag g 231

<210> 13  
<211> 60  
<212> DNA  
<213> Rattus norvegicus

<400> 13  
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<210> 14  
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<213> Homo sapiens

<400> 14  
Lys Tyr Lys His Ser Val Val Lys Lys  
1 5

<210> 15  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 15  
Val Asn Asn Asp Glu Thr  
1 5

<210> 16  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 16  
Ala Ala Arg Ile Ser Leu Gly Pro Arg  
1 5

<210> 17  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 17  
ttgctgctaa atataaacat tctgttg 27

<210> 18  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 18  
gagcttctgt taataatg 18

<210> 19  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 19  
aacaacgcgc tgctagaatt tctttgg 27

<210> 20  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 20  
Lys Tyr Lys His Thr Val Val Lys Lys  
1 5

<210> 21  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 21  
Lys Tyr Lys His Ser Ala Val Lys Lys  
1 5

<210> 22  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 22  
Lys Tyr Lys His Ser Ala Ala Lys Lys  
1 5

<210> 23  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 23  
Lys Tyr Lys His Ser Val Ala Lys Lys  
1 5

<210> 24  
 <211> 6  
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 <213> Artificial Sequence  
  
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 Val Asn Asn Asp Glu Ser  
     1                    5  
  
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 Val Asn Asn Gln Glu Ser  
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 Ala Asn Asn Asp Glu Thr  
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 <211> 9  
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 <400> 28  
 Ala Ala Arg Ile Ser Ile Gly Pro Arg  
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<210> 29  
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 Ala Ala Arg Ile Ser Val Gly Pro Arg  
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 <210> 30  
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 <220>  
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 Ala Ala Arg Ile Thr Leu Gly Pro Arg  
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 <210> 31  
 <211> 9  
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 <400> 31  
 Ala Val Arg Ile Ser Leu Gly Pro Arg  
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 <210> 32  
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 <212> PRT  
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 <400> 32  
 Val Ala Arg Ile Ser Leu Gly Pro Arg  
   1                          5  
  
 <210> 33  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence  
  
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<210> 34  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 34  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Val Val Lys

<210> 35  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 35  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Val Val

<210> 36  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 36  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Val

<210> 37  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 37  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

<210> 38  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 38  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His  
1 5 10 15

<210> 39  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 39  
Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser Val  
1 5 10 15

Val Lys Lys

<210> 40  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 40  
Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser Val Val  
1 5 10 15

Lys Lys

<210> 41  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 41  
Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser Val Val Lys  
1 5 10 15

Lys

<210> 42  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 42  
Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser Val Val Lys Lys  
1 5 10 15

<210> 43  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 43  
Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser Val Val Lys Lys  
1 5 10 15

<210> 44  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 44  
Met Ile Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Val Val Lys Lys  
20

<210> 45  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 45  
Met Val Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Val Val Lys Lys  
20

<210> 46  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 46  
Met Leu Asp Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Val Val Lys Lys  
20

<210> 47  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 47  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Thr  
1 5 10 15

Val Val Lys Lys  
20

<210> 48  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 48  
Met Leu Gln Lys Lys Ile Glu Glu Ile Val Ala Lys Tyr Lys His Ser  
1 5 10 15

Val Val Lys Lys  
20

<210> 49  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 49  
Met Leu Gln Lys Lys Ile Glu Glu Ile Val Val Lys Tyr Lys His Ser  
1 5 10 15

Val Val Lys Lys  
20

<210> 50  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 50  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Val Ala Lys Lys  
20

<210> 51  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 51  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Ala Ala Lys Lys  
20

<210> 52  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 52  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
1 5 10 15

Ala Val Lys Lys  
20

<210> 53  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 53  
Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Val Lys Tyr Lys His Ser  
1 5 10 15

Val Val Lys Lys  
20

<210> 54  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 54  
 Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
           1                  5                  10                  15

Arg Ala Ala

<210> 55  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

<400> 55  
 Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
           1                  5                  10                  15

Arg Ala

<210> 56  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

<400> 56  
 Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
           1                  5                  10                  15

Arg

<210> 57  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

<400> 57  
 Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
           1                  5                  10                  15

<210> 58  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

<400> 58  
 Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu  
           1                  5                  10                  15

<210> 59  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 59  
Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln Arg  
1 5 10 15

Ala Ala Arg

<210> 60  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 60  
Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln Arg Ala  
1 5 10 15

Ala Arg

<210> 61  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 61  
Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln Arg Ala Ala  
1 5 10 15

Arg

<210> 62  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 62  
Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln Arg Ala Ala Arg  
1 5 10 15

<210> 63  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 63  
Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln Arg Ala Ala Arg  
1 5 10 15

<210> 64  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 64  
Cys Cys Tyr Gln Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Ala Ala Arg  
20

<210> 65  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 65  
Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Gln Glu Thr Cys Glu Gln  
1 5 10 15

Arg Ala Ala Arg  
20

<210> 66  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 66  
Cys Cys Tyr Gln Gly Ala Ser Val Asn Asn Gln Glu Thr Cys Glu Gln  
1 5 10 15

Arg Ala Ala Arg  
20

<210> 67  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 67  
Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Ser Cys Glu Gln  
1 5 10 15

Arg Ala Ala Arg  
20

<210> 68  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 68  
Cys Cys Tyr Asp Gly Ala Thr Val Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Ala Ala Arg  
20

<210> 69  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 69  
Cys Cys Tyr Asp Gly Val Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Ala Ala Arg  
20

<210> 70  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 70  
Cys Cys Tyr Asp Gly Ala Ser Ala Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Ala Ala Arg  
20

<210> 71  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 71  
Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Val Ala Arg  
20

<210> 72  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 72  
Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Val Val Arg  
20

<210> 73  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 73  
Cys Cys Tyr Asp Gly Ala Ser Val Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Ala Val Arg  
20

<210> 74  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 74  
Cys Cys Tyr Asp Gly Val Ser Ala Asn Asn Asp Glu Thr Cys Glu Gln  
1 5 10 15

Arg Val Val Arg  
20

<210> 75  
 <211> 20  
 <212> PRT  
 <213> Mus musculus x Rattus norvegicus

<400> 75  
 Cys Thr Ile Ala Asp Lys Ile Arg Lys Glu Ser His His Lys Gly Met  
           1                  5                  10                  15

Leu Leu Gly Arg  
                   20

<210> 76  
 <211> 60  
 <212> DNA  
 <213> Mus musculus x Rattus norvegicus

<400> 76  
 tgtactattg cggataagat ccgaaaagaa agccaccaca aaggcatgct gttgggaagg 60

<210> 77  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> The amino acid at this position can be Cysteine or Serine.

<400> 77  
 Met Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala Lys Tyr Lys His Ser  
           1                  5                  10                  15

Val Val Lys Lys Cys Cys Tyr Asp Gly Ala Xaa Val Asn Asn Asp Glu  
                   20                  25                  30

Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu Gly Pro Arg Cys Ile  
           35                  40                  45

Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg Ala Asn  
           50                  55                  60

Ile Ser His Lys Asp Met Gln Leu Gly Arg  
           65                  70

<210> 78  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> The amino acid at this position can be Cysteine or Serine.

<400> 78  
 Tyr Lys His Ser Val Val Lys Lys Cys Cys Tyr Asp Gly Ala Xaa Val  
 1 5 10 15

Asn Asn Asp Glu  
 20

<210> 79  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> The amino acid at this position can be Cysteine or Serine.

<400> 79  
 Cys Cys Tyr Asp Gly Ala Xaa Val Asn Asn Asp Glu Thr Cys Glu Gln  
 1 5 10 15

Arg Ala Ala Arg  
 20

<210> 80  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 80  
 Asp Glu Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu Gly Pro Arg  
 1 5 10 15

Cys Ile Lys Ala  
 20

<210> 81  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 81  
 Cys Cys Tyr Asp Gly Ala Cys Val Asn Asn Asp Glu Thr Cys Glu Gln  
 1 5 10 15

Arg Ala Ala Arg  
 20

<210> 82  
 <211> 243  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
 gatccagtat gttgcaaaaa aaaattgaag aaattgctgc taaatataaa cattctgttg 60  
 ttaaaaaatg ttgttatgat ggagcttctg ttaataatga tgaaacctgc gaacaacgcg 120  
 ctgctagaat ttctttggga cctagatgta ttaaagcatt tacagaatgt tgtgtgttg 180  
 cttctcaatt gagagcgaat atttctcata aagatatgca attgggaaga taggatccgt 240  
 cga 243